

FOOD PROCESSING INDUSTRY SOLUTIONS



EN - 2018/2

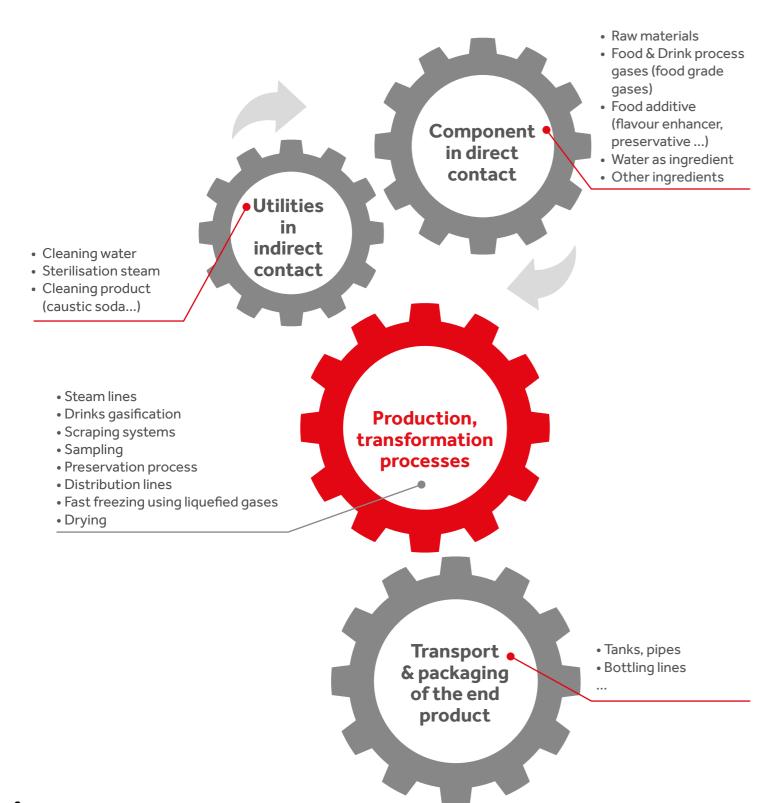






the food and beverage industry market. regulation (EC) n° 178/2002: beverages, This regulation sets the requirements to be chewing gums and any substance including applied for materials and articles intended water that is intentionally incorporated into to come in contact directly or indirectly food during its production, preparation or with foodstuffs

The (EC) N°1935/2004 regulation controls Foodstuffs are defined in article 2 of its processing.

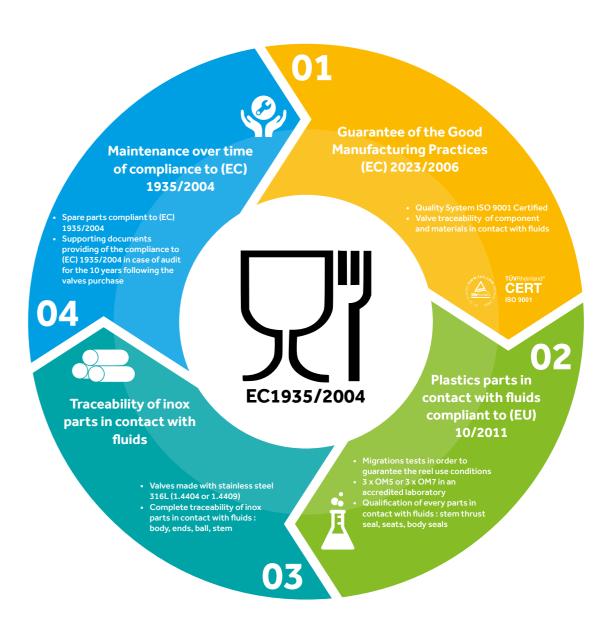


during processes such as **food fast freezing** we offer a **complete range** of ball valves in with liquefied gases, steam cooking, or compliance with the (EC) n°1935/2004 food sampling.

with foodstuffs, these equipments are compliance and maintenance of existing submitted to the (EC) n°1935/2004.

All equipments including valves are used To meet the requirements of our clients, regulation.

Being in contact whether direct or indirect We also propose solutions for upgrade to plants.



They trust us: Messer, Air Liquide, Tetrapak, Wrigley, Nestlé, GEA, Definox, SPX Flow, Pierre Guérin, Mars, Saipol, Maisonneuve



PROCESS -20 °C to + 121 °C - ALL FOOD & INGREDIENTS

(Liquids, Gas, Powders) 3-piece ball valves - PN4 I



- For piping DN08 to DN200
- PN100 to PN16
- Ball and ends in 1.4435 (low ferrite)
- Ball and ends internal roughness : Ra.04 µm
- EC1935 plastic certified

Options

- True Bore version (pigging system)
- PTFE Cavity fillers
- Actuation
- EC1935 total certified

CO2 LIQUID for Gasification of beverages + Other gas between -50°C and + 121°C



3-piece Ball Valves - PS4I PG and PY4 I

- For piping DN08 to DN200
- PN100 to PN16
- Functional EN1626 / -50°C
- Ball with upstream vent hole
- Body sealing <10-5 mbar / L.s-1
- EC1935 plastic certified

Options

- Pi marking option for tanks transport
- EC1935 total certified



PROCESS up to + 250°C - STEAM, OVERHEATED WATER, OILS



Ball Seats

TFM1600®

PTFE

20% PEEK

FDA compliant plastic materials

21 CFR Section 177.1550

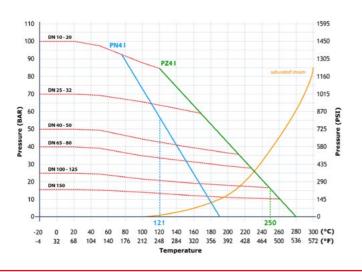
3-Piece Ball Valves - PZ4 I

- For piping DN08 to DN200
- PN100 to PN16
- High Temperature Seats
- EC1935 plastic certified

Options



- V-Ball version for regulation
- EC1935 total certified



FAST FREEZING LIQUID NITROGEN -196°C to + 121°C





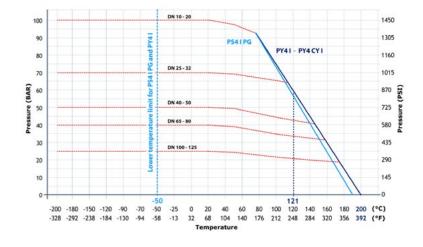
Valves	Ball Seats	Body Seal
S41PG	PTFE 2 nd generation	PTFE
PY4I	TF3215 [®] PTFE Carbon	PTFE

3-Piece Ball Valves - PY4CY I

- For piping DN08 to DN150
- PN100 to PN16
- Functional EN1626 / -196 ° C
- Ball with upstream vent hole
- Body sealing <10-5 mbar / L.s-1
- EC1935 plastic certified

Options

EC1935 total certified



Body Seal

PTFE

PTFE

Metallic Parts in Contact with

TOTAL QUALIFICATION OF PLASTIC COMPONENTS

Test Fluids A, B & D2 **Tests Conditions OM5 & OM7 Multi-Contact Tests**



Fluids 100% Stainless Steel 316L

MARKING & TRACEABILITY

PY4CYI

EC1935 label with valve batch number **Delivered with EC1935** plastic parts certificate



Valves

PN4I

PZ4I

ACTUATED VALVES



For Piloted Process

- Double or Single effect Pneumatic Actuators, 500,000 cycles guaranteed
- Electric Actuators
- · Limit switches. Solenoid valves ...

Options

• CNI® Nickel-PTFE Coated Actuator Aggressive environments (Cleaning agents ...)

REGULATION



Flow / Pressure Adjustment Solution - V-Ball

- V30° or V60° ball
- Manual or Actuated
- Tight in closed position
- 2 times less pressure drop than a standard control valve

SAFE ISOLATION & PURGE



Double Block & Bleed

- Double isolation & Line Bleeding
- Safe Maintenance
- Steam and high Temperatures lines and / or Dangerous
- Piping DN08 to DN 200

JACKETED VALVE



Solution for Maintaining temperature (Chocolate, chewing gum ...)

- Steam Jacket up to 25bar
- Compatible with Steam and Thermal Oils
- Available in PZ4I EC1935 range

SIGHT GLASS



Visual fluid control - VC4 I

- PYREX glass
- PN7 to PN16
- Piping DN08 to DN65
- All Foods -20°C to +121°C

CHECK VALVES



- Piston 316L & PTFE
- PN80
- Piping DN08 to DN65
- All Foods -20°C to +121°C
- Liquid Nitrogen and CO2 up to -196 ° C

FLUSHING VALVES



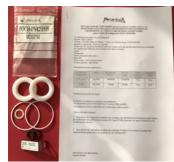
Tank Bottom Solution

- No dead volume in the tank
- Available in PN4I and PZ4I EC1935 series
- Also available in steam jacket version

Pick-up valve

- No dead volume in the line
- Available in PN4I and PZ4I EC1935 series

MAINTENANCE & COMPLIANCE INSTALLATIONS



EC1935 Maintenance kit

- Plastic Sealing Parts
- Stainless Steel Label with Traceability
- Certificate of conformity EC1935 plastic parts

EC1935 Valve Body Kit Boxes (PN4 I, PZ4 I, ...)

- Stainless steel valve body ready to install
- 100% compatible with Meca-Inox body in place
- Certificate of conformity EC1935 plastic parts

Meca-Inox Body EC1935 compatible with others marks of valves for conformity of installations, consult us.



HIGH QUALITY BALL VALVES

BORN IN FRANCE, WORLDWIDE AVAILABLE



Since 1967, MECA-INOX has manufactured ball valves and is a European leading signature for high quality ball valves dedicated to Chemistry, Pharma & Cosmetic, Cryogenic fluids, Food & Beverage and Industry with more than 3 million valves installed all over the world and 150 000 ball valves yearly production.

Expert in stainless steel and carbon steel ball valves technology, we have developed over the years a complete products offer internationally recognized for its reliability, performance, and flexibility of use. Combining high quality materials and our specific knowhow of design and manufacturing, our products meet the most stringent requirements.

From our industrial sites of Gisors (France) and Dalian (China), our teams can support you anywhere in the world. Our network of distributors provide an optimal availability of our valves and equipment for your international projects.

meca-inox.com

